

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of ) **MAIL STOP PCT**  
Anders LINDAHL et al. )  
Application No.: 10/581,901 )  
Filing Date: June 7, 2006 )  
Title: METHODS FOR CLONAL )  
DERIVATION OF HUMAN )  
BLASTOCYST-DERIVED STEM CELL )  
LINES )  
Group Art Unit: Unassigned  
Examiner: Unassigned  
Confirmation No.: Unassigned

**INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

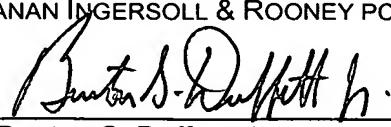
Enclosed is an Information Disclosure Statement (IDS) and accompanying form PTO-1449 for the above-identified patent application.

- No additional fee for submission of an IDS is required.
- The fee of \$ 180 as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e), and the fee of \$ 180 as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- A check in the amount of \_\_\_\_\_ is enclosed for the fee due.
- Charge \_\_\_\_\_ to credit card for the fee due. Form PTO-2038 is attached.
- The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date September 1, 2006

By:   
Benton S. Duffett, Jr.  
Registration No. 22030

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Alexandria, VA 22313-1404  
703 836 6620

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of ) **MAIL STOP PCT**  
Anders Lindahl et al. )  
Application No.: 10/581,901 ) **Attention: DO/EO/US**  
Filed: June 7, 2006 ) Group Art Unit: Unassigned  
For: METHODS FOR CLONAL ) Examiner: Unassigned  
DERIVATION OF HUMAN ) Confirmation No.: Unassigned  
BLASTOCYST-DERIVED STEM )  
CELL LINES )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56,  
Applicants provide information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Copies of the following publications that are cited in the International Search  
Report are provided:

- (1) Amit, Michal et al., *Developmental Biology*, November 15, 2000, Volume 227, No. 2, pages 271-278, "Clonally Derived Human Embryonic Stem Cell Lines Maintain Pluripotency and Proliferative Potential for Prolonged Periods of Culture".  
[Discussed in Applicants' Specification at Pages 18 and 19.]
- (2) WO 03/055992 to Semb et al., (CELL THERAPEUTICS SCANDINAVIA AB), entitled "A Method for Establishment of a Pluripotent Human Blastocyst-Derived Stem Cell Line".  
Published: July 10, 2003  
[Discussed in Applicants' Specification at Pages 18 and 19.]
- (3) Pickering, Susan et al., *Reproductive Biomedicine Online*, Volume 7, No. 3, October 2003, Pages 353-364, "Preimplantation Genetic Diagnosis as a Novel Source of Embryos for Stem Cell Research".

- (4) Reubinoff, Benjamin E. et al., *Nature Biotechnology*, Volume 18, No. 4, April 2000, Pages 399-404, "Embryotic Stem Cell Lines from Human Blastocysts: Somatic Differentiation in Vitro".
- (5) Xu, Chunhui et al., *Nature Biotechnology*, Volume 19, No. 10, October 2001, Pages 399-404, "Feeder-free Growth of Undifferentiated Human Embryonic Stem Cells".
- (6) Heins, Nico et al., *Stem Cells*, Volume 22, No. 3, May 2004, Pages 367-376, "Derivation, Characterization, and Differentiation of Human Embryonic Stem Cells".  
[Discussed in Applicants' Specification at Pages 18 and 19.]

Applicant's also provide a copy of the following for the convenience of the Examiner:

- (7) U.S. Patent Publication No. 2003/0073234 to Amit et al., published on April 17, 2003 and entitled "Clonal Human Embryonic Stem Cell Lines and Methods of Generating Same".

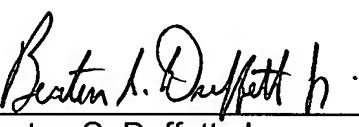
A form PTO-1449 is provided for the convenience of the Examiner. It is requested that an Examiner-initialed copy of this form be returned to the undersigned once these publications are considered.

The examination and allowance of the Application are respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: September 1, 2006

By:   
Benton S. Duffett, Jr.  
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703.836.6620

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
 (use as many sheets as necessary)

Sheet 1 of 1

|                      |                       |
|----------------------|-----------------------|
| Application Number   | 10/581,901            |
| Filing Date          | June 7, 2006          |
| First Named Inventor | Anders LINDAHL et al. |
| Examiner Name        | Unassigned            |
| Attorney Docket No.  | 1034005-0000021       |

**U.S. PATENT DOCUMENTS**

| Examiner Initials | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
|-------------------|-----------------|----------------------|---|-------------------------------------|
|                   | 2003/0073234    | A1                   | AMIT et al.                                     | 04/17/2003                          |
|                   |                 |                      |   |                                     |
|                   |                 |                      |   |                                     |
|                   |                 |                      |   |                                     |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | STATUS      |                     |                    |               |      |
|-------------------|-----------------|----------------------|---------|----------------------------------|-------------|---------------------|--------------------|---------------|------|
|                   |                 |                      |         |                                  | Translation | Partial Translation | Eng. Lang. Summary | Search Report | IPER |
|                   | W0 03/055992    | A2                   | PCT     | 07/10/2003                       |             |                     |                    | X             |      |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |
|                   |                 |                      |         |                                  |             |                     |                    |               |      |

**NON-PATENT LITERATURE DOCUMENTS**

|                   |  |
|-------------------|--|
| Examiner Initials | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  |
|                   | Amit, Michal et al., <i>Developmental Biology</i> , November 15, 2000, Volume 227, No. 2, pages 271-278, "Clonally Derived Human Embryonic Stem Cell Lines Maintain Pluripotency and Proliferative Potential for Prolonged Periods of Culture". [Discussed in Applicants' Specification at Pages 18 and 19.] |
|                   | Pickering, Susan et al., <i>Reproductive Biomedicine Online</i> , Volume 7, No. 3, October 2003, Pages 353-364, "Preimplantation Genetic Diagnosis as a Novel Source of Embryos for Stem Cell Research".   |
|                   | Reubinoff, Benjamin E. et al., <i>Nature Biotechnology</i> , Volume 18, No. 4, April 2000, Pages 399-404, "Embryotic Stem Cell Lines from Human Blastocysts: Somatic Differentiation in Vitro".  |
|                   | Xu, Chunhui et al., <i>Nature Biotechnology</i> , Volume 19, No. 10, October 2001, Pages 399-404, "Feeder-free Growth of Undifferentiated Human Embryonic Stem Cells".   |
|                   | Heins, Nico et al., <i>Stem Cells</i> , Volume 22, No. 3, May 2004, Pages 367-376, "Derivation, Characterization, and Differentiation of Human Embryonic Stem Cells". [Discussed in Applicants' Specification at Pages 18 and 19.]   |

|                    |                 |  |
|--------------------|-----------------|--|
| Examiner Signature | Date Considered |  |
|--------------------|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.